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## WHAT IS CLAIMED IS:

 A signal recording medium having a plurality of recording layers,

each of said recording layers has tracks for recording information, and

said tracks have a wobbling structure in which said tracks are wobbled at different periods for the respective recording layers.

- 2. A medium according to claim 1, wherein the wobbling periods of said tracks of said recording layers have a multiple relationship.
- 3. A medium according to claim 1, wherein said recording layers comprise a reference layer and another layer, said reference layer having tracks wobbled at a predetermined period and said other layer having tracks phase-modulated at a specific period.
- 4. A medium according to claim 1, wherein said tracks comprise land tracks and groove tracks, and a signal is recorded on only said groove tracks.
- 5. A medium according to claim 1, wherein said tracks comprise land tracks and groove tracks, and a signal is recorded on both said land tracks and said groove tracks.
- 6. A signal recording method of recording a signal on a signal recording medium having a plurality of recording layers, each of the recording layers having tracks for recording information, and the tracks

having a wobbling structure in which the tracks are wobbled at different periods for the respective recording layers, comprising:

in recording the signal on a target recording layer of the signal recording medium, detecting the wobbling period of the track parallel to signal recording, and upon detecting a change in wobbling period during signal recording, determining on the basis of the detection result that movement from the target recording layer occurs, and stopping the recording operation.

7. A signal recording apparatus for recording a signal on a signal recording medium having a plurality of recording layers, each of the recording layers having tracks for recording information, and the tracks having a wobbling structure in which the tracks are wobbled at different periods for the respective recording layers, comprising:

detection means for, in recording the signal on a target recording layer of the signal recording medium, detecting the wobbling period of the track parallel to signal recording; and

recording operation control means for, upon detecting a change in wobbling period during signal recording, determining on the basis of the detection result that movement from the target recording layer occurs, and stopping the recording operation.

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8. A signal recording/reproducing apparatus for recording a signal on a signal recording medium having a plurality of recording layers, each of the recording layers having tracks for recording information, and the tracks having a wobbling structure in which the tracks are wobbled at different periods for the respective recording layers, comprising:

detection means for, in executing recording/
reproducing processing for a target recording layer of
the signal recording medium, detecting the wobbling
period of the track; and

operation control means for confirming on the basis of the detection result that the target recording layer is being accessed, and executing processing.

9. An apparatus according to claim 8, wherein said operation control means comprises

recording operation control means for, in recording the signal on the target recording layer of the signal recording medium, detecting the wobbling period of the track parallel to signal recording, and upon detecting a change in wobbling period during signal recording, determining on the basis of the detection result that movement from the target recording layer occurs, and stopping the recording operation, and

reproducing operation control means for, in reproducing the signal from the target recording layer

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of the signal recording medium, detecting the wobbling period of the track parallel to signal reproduction, and upon detecting a change in wobbling period during signal reproduction, determining on the basis of the detection result that movement from the target recording layer occurs, and stopping the reproducing operation.

10. A signal recording medium having a plurality of recording layers,

each of said recording layers has tracks for recording information, and

said tracks have a wobbling structure in which said tracks are wobbled at different periods every round.

11. A signal recording/reproducing apparatus for recording a signal on a signal recording medium having a plurality of recording layers, each of the recording layers having tracks for recording information, and the tracks having a wobbling structure in which the tracks are wobbled at different periods every round, comprising:

detection means for, in executing recording/reproducing processing for a track of an nth round of the signal recording medium, detecting the wobbling period of the track; and

operation control means for confirming on the basis of the detection result that the track of the nth

round is being accessed, and executing processing.

12. An apparatus according to claim 11, wherein said operation control means comprises

recording operation control means for, in recording the signal on the track of the nth round of the signal recording medium, detecting the wobbling period of the track parallel to signal recording, and upon detecting a change in wobbling period during signal recording on the track of the nth round, determining on the basis of the detection result that movement from the track of the nth round occurs, and stopping the recording operation, and

reproducing operation control means for, in reproducing the signal from the track of the nth round of the signal recording medium, detecting the wobbling period of the track parallel to signal reproduction, and upon detecting a change in wobbling period during signal reproduction from the track of the nth round, determining on the basis of the detection result that movement from the track of the nth round occurs, and stopping the reproducing operation.

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